






**Highly shock-resistant ceramic material****Publication number:** DE10235965**Publication date:** 2004-04-15**Inventor:** FRASSEK LUTZ (DE); WOETTING GERHARD (DE);
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(DE); THOMA HANS-JUERGEN (DE)**Applicant:** H C STARCK CERAMICS GMBH & CO (DE)**Classification:****- international:** **C04B35/488; C04B35/575; C04B35/593; C04B35/597;
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C04B35/645H; F16C33/32**Application number:** DE20021035965 20020806**Priority number(s):** DE20021035965 20020806**Also published as:** WO2004014817 (A1)
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Ceramic material of high impact strength, in particular based on Si₃N₄ or ZrO₂, having an HV10 hardness of not more than 15.5 GPa and an E modulus at room temperature of less than 330 GPa, wherein the material contains 0.2 to 5 wt. % of carbon particles which have a maximum particle size of 5 µm, a process for the preparation of the ceramic material and the use thereof, in particular as roller bodies in bearings.

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